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Basic Imagery Interpretation Report



NATIONAL
PHOTOGRAPHIC
INTERPRETATION
CENTER

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HU TU PI RADIO STATION (HUTUPI RADIO BROADCAST STATION)

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DEPLOYED COMM/ELEC/RADAR FACILITIES
CHINA
SEPTEMBER 1969

Declass Review by NIMA/DOD

COPY NO. 118

6 PAGES

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Hu Tu Pi Radio Station

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

NA

44-09-30N 086-54-20E

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MAP REFERENCE

ACIC. US Air Target Chart, Series 200, Sheet M0243-23HL, 3d ed, Feb 69, scale

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NEGATION DATE (if required)

NA

ABSTRACT

This report describes the Hutupi Radio Broadcast Station (Hu Tu Pi Radio Station), and includes a location map, annotated photography, and mensuration of significant features.

The facility is used for international broadcasting, and consists of two separate areas, one to the west and one to the east. The western area contains 10 vertical radiators and 10 passive reflectors comprising three medium frequency (MF) broadcasting arrays. The eastern area contains three MF broadcasting radiators, one of which has a passive reflector. Both areas include support and control features.

INTRODUCTION

The Hutupi Radio Broadcast Station is located 37 nautical miles (nm) northwest of Urumchi, China (43-48-00N 087-35-00E), situated in a relatively level area at an elevation approximately 1,500 feet above sea level.¹ The western and eastern areas are separately fence secured, and are approximately 4,000 feet apart.

BASIC DESCRIPTION

Western Area

Two of the three broadcasting arrays in the western area (Figure 1) have four vertical radiators and four passive reflectors apiece. The third broadcasting array has two vertical radiators and two passive reflectors. All of the vertical radiators have four [] rings: one at the top of the vertical radiator; one 40 feet from the top; one 90 feet from the top; one 150 feet from the top. Each vertical radiator and passive reflector has a tuning building and a buried radial ground

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screen at its base. The primary direction of propagation of one of the arrays (items A-H) is toward Afghanistan, Pakistan, and northwest India. Another array (items I-P) propagates toward western USSR. A third array (items Q-T) has a primary direction of propagation toward Mongolia and eastern USSR.

The support area has one control/studio building, one water tower, two rectangular cooling ponds, one heating plant, and 22 other buildings. There are three security buildings located around the perimeter security fence. A dual powerline enters the support area from an electric power transformer station located approximately 1 nm northwest of the area.

Eastern Area

Two of the three vertical radiators in the eastern area (items X and W) have an omnidirectional propagation. The third vertical radiator (item U) has a passive reflector which produces a primary direction of propagation toward western USSR. Each vertical radiator has a tuning building and a buried radial ground screen at its base.

The support area has one control/studio building, two water towers, two circular cooling ponds, one heating plant, and 19 other buildings. There are three security buildings and two other buildings located around the perimeter security fence. A dual powerline enters the support area from the same electric power transformer station that serves the western area, approximately 1.7 nm to the northwest.

STATUS AND ACTIVITY

Construction on the Hutupi Radio Broadcast Station began sometime [redacted] [redacted] work had been completed on all vertical radiators and passive reflectors, and on all but six of the support buildings. The facility possibly could have been operational at this time. Construction on the other support buildings was completed [redacted]

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TABLE 1. ANTENNA CHARACTERISTICS, HUTUPI RADIO
BROADCAST STATION (letters keyed to Figure 1)

Antenna	Type	Height (ft)*	Distance Apart (ft)*
A	Passive reflector	370	A-B 185
			A-C 370
B	Vertical radiator	370	B-D 370
C	Passive reflector	370	C-D 185
			C-E 365
D	Vertical radiator	370	D-F 265
E	Passive reflector	370	E-F 185
			E-G 370
F	Vertical radiator	370	F-H 375
G	Passive reflector	370	G-H 185
H	Vertical radiator	370	-
I	Passive reflector		I-J
			I-K 345
J	Vertical radiator		J-L 345
K	Passive reflector		K-L
			K-M 345
L	Vertical radiator		L-N 345
M	Passive reflector		M-N
			M-O 345
N	Vertical radiator		N-P 345
O	Passive reflector		O-P
P	Vertical radiator		-
Q	Passive reflector	370	Q-R 195
			Q-S 360
R	Vertical radiator	370	R-T 360
S	Passive reflector	370	S-T 195
T	Vertical radiator	370	-
U	Vertical radiator	490**	U-V 280
V	Passive reflector	490**	V-W 1640
W	Vertical radiator	435**	W-X 1640
X	Vertical radiator	470**	-

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Table 2. Details of Structures, Hutupi Radio Broadcast Station
(items keyed to Figure 1)

Item	Description	Dimensions (ft)*			Item	Description	Dimensions (ft)*		
		L	W	H			L	W	H
1	Building				26	Tuning bldgs (2)			
2	Building				See legend	Security bldg			
3	Building				27	Buildings (2)			
4	Building				28	Control studio bldg			
5	Building				a	Wing			
6	Building				b	Wing			
a	Wing				c	Wing			
7	Building				29	Water tower			
a	Wing				30	Water tower			
8	Building				31	Cooling ponds (2)			
9	Buildings (2)				32	Building			
10	Building				33	Buildings (2)			
a	Wing				34	Building			
b	Wing				35	Building			
11	Buildings (3)				36	Building			
12	Building				37	Building			
13	Heating plant				38	Building			
a	Stack				39	Building			
14	Building				40	Building			
15	Building				41	Buildings (3)			
16	Building				42	Building			
17	Cooling ponds (2)				43	Building			
18	Building				44	Heating plant			
19	Building				a	Stack			
20	Control studio bldg				45	Building			
a	Wing				46	Building			
21	Water tower				47	Building			
See legend	Security bldg				48	Building			
22	Tuning bldgs (9)				See legend	Security bldgs (3)			
23	Tuning bldgs (9)				49	Tuning bldgs (3)			
24	Building				50	Building			
See legend	Security bldg				51	Building			
25	Building								

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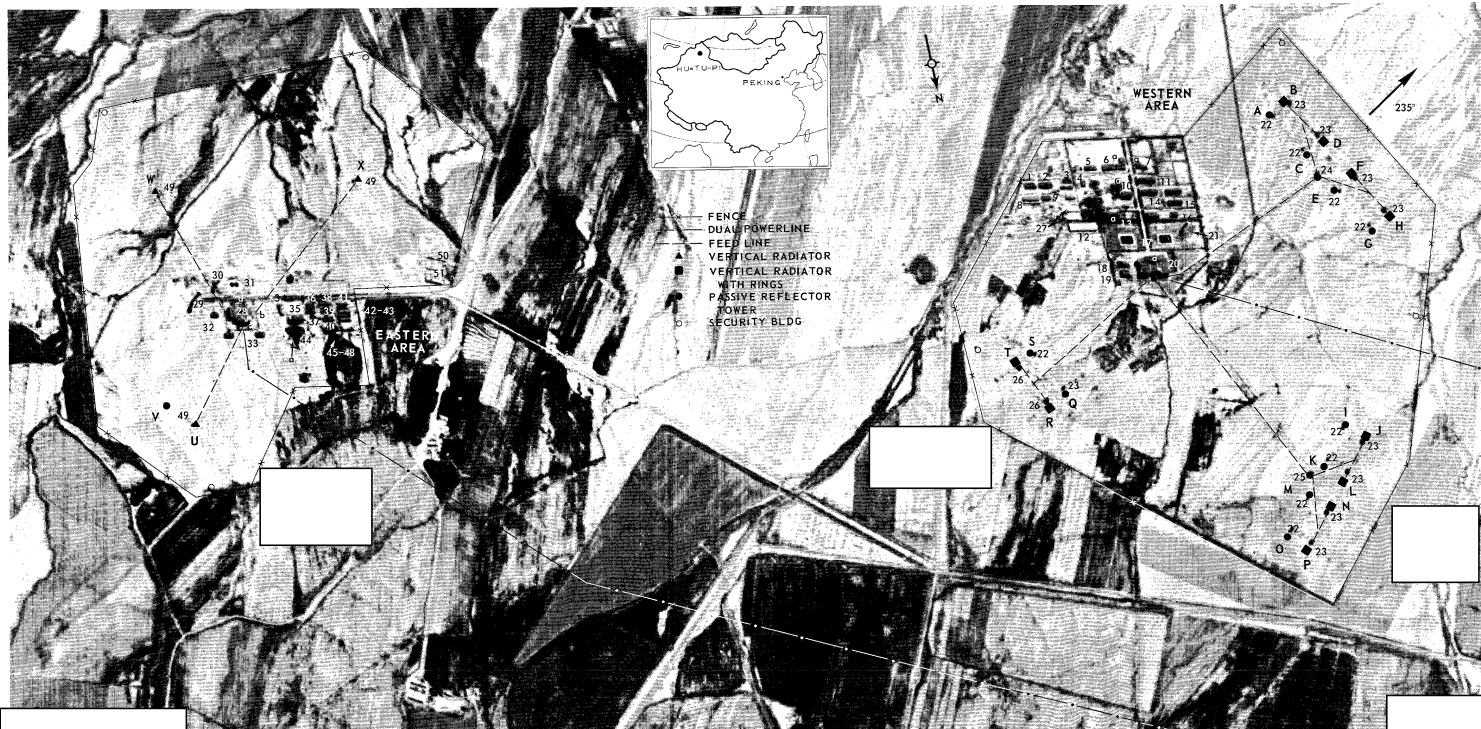


FIGURE 1. HUTUPI RADIO BROADCAST STATION

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REFERENCES

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MAPS AND CHARTS

ACIC. US Air Target Chart, Series 200, Sheet M0243-23 HL, 3d ed, Feb 69, scale 1:200,000
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DOCUMENT

1. NPIC. *Radio Facility Under Construction Hu Tu Pi, China*, Apr 65 (TOP SECRET)

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RELATED DOCUMENT

NPIC. *Search of Wulumuchi, China*, Mar 66 (TOP SECRET)

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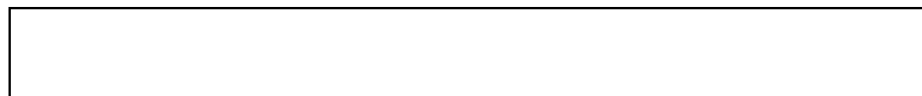
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REQUIREMENT

NPIC Project 220206

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